Performance Data Sheet

RKA5512EXV

General Information

Model	RKA5512EXV	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	265V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	4320	4060					
	Watts	504	555					
	Amps	1.81	1.97					
	Lb/h	55.6	54.4					
-10	Btu/h	4780	4490	4210				
	Watts	517	571	624				
	Amps	1.87	2.04	2.24				
	Lb/h	61.1	59.8	58.5				
-5	Btu/h	5310	5000	4690	4400			
	Watts	529	586	643	700			
	Amps	1.92	2.11	2.33	2.56			
	Lb/h	67.6	66.2	64.8	63.4			
0	Btu/h	5940	5590	5260	4930	4620		
	Watts	542	602	662	723	784		
	Amps	1.98	2.18	2.41	2.66	2.93		
	Lb/h	75.0	73.5	72.0	70.5	69.1		
5	Btu/h	6640	6270	5900	5540	5190		
	Watts	555	617	680	745	810		
	Amps	2.03	2.25	2.49	2.76	3.04		
	Lb/h	83.5	81.9	80.2	78.6	77.1		
10	Btu/h	7430	7030	6620	6220	5830	5450	5080
	Watts	568	633	699	766	835	905	978
	Amps	2.08	2.32	2.57	2.85	3.15	3.45	3.78
	Lb/h	92.8	91.1	89.4	87.7	86.0	84.4	82.9
15	Btu/h	8310	7870	7420	6990	6560	6130	5720
	Watts	581	648	716	787	859	934	1010
	Amps	2.13	2.38	2.65	2.94	3.25	3.57	3.90
	Lb/h	103	101	99.6	97.7	95.9	94.2	92.5
20	Btu/h	9270	8790	8310	7830	7350	6890	6430
	Watts	594	663	734	807	883	961	1040
	Amps	2.18	2.45	2.73	3.03	3.35	3.68	4.02
	Lb/h	114	113	111	109	107	105	103

25	Btu/h	10300	9790	9270	8750	8230	7710	7200
	Watts	607	678	751	827	906	988	1070
	Amps	2.22	2.51	2.81	3.12	3.45	3.79	4.14
	Lb/h	126	125	123	121	119	117	115
30	Btu/h	11400	10900	10300	9740	9180	8610	8050
	Watts	620	692	768	846	928	1010	1100
	Amps	2.27	2.57	2.88	3.21	3.55	3.90	4.26
	Lb/h	139	138	136	133	131	129	127
35	Btu/h	12700	12000	11400	10800	10200	9590	8970
	Watts	634	707	784	865	949	1040	1130
	Amps	2.31	2.63	2.95	3.29	3.64	4.00	4.37
	Lb/h	153	151	149	147	145	143	141
40	Btu/h	13900	13300	12600	12000	11300	10600	9960
	Watts	647	722	801	883	970	1060	1160
	Amps	2.36	2.68	3.02	3.37	3.73	4.10	4.48
	Lb/h	168	166	164	162	160	157	155
45	Btu/h	15300	14600	13900	13200	12500	11800	11000
	Watts	661	736	816	901	990	1080	1180
	Amps	2.40	2.74	3.09	3.45	3.82	4.20	4.58
	Lb/h	183	182	180	177	175	173	170
50	Btu/h	16800	16000	15300	14500	13700	12900	12200
	Watts	675	751	832	918	1010	1110	1210
	Amps	2.44	2.79	3.16	3.53	3.91	4.29	4.68
	Lb/h	200	198	196	194	191	189	186
55	Btu/h	18300	17500	16700	15900	15000	14200	13400
	Watts	689	765	847	935	1030	1130	1230
	Amps	2.48	2.84	3.22	3.60	3.99	4.39	4.78
	Lb/h	217	215	213	211	208	206	204

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	8.763217E+03	5.584957E+01	1.342813E+00	8.110763E+01
C2	1.691666E+02	1.422945E+00	-2.451880E-02	1.610872E+00
C3	-3.410434E+01	6.342447E+00	-5.366002E-03	4.528118E-02
C4	2.028480E+00	3.608717E-02	2.984680E-05	1.718323E-02
C5	-3.159115E-01	-2.190568E-02	5.370773E-04	1.247044E-03
C6	-3.834875E-02	-5.339553E-03	1.878720E-04	-2.126017E-03
C7	-2.175137E-04	8.059237E-06	-9.287020E-08	-2.060681E-05
C8	-4.215909E-03	-4.299664E-04	-6.227339E-07	2.479860E-05
C9	-1.716859E-03	4.494989E-04	-1.239699E-06	-1.900782E-05
C10	2.875219E-04	2.527094E-05	-2.749557E-07	7.642243E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature